RESEARCH REPORT DOCUMENTATION PAGE

1. Report No.	2. Report Date	Contract No.		4. Project No.
MR 2004-02 5. Title and Subtitle	April 2005	N/A	6. Report Type	IM-8-029(052)065 7. Project No.
Use of Texcote XL-70C Bridge Cote as a Concrete Surface Finish and Curing Compound			Click on link to open report Work Plan Construction Evaluation Final	8. Project No. 9. Project No. 10. Project No.
11. Author(s)/Principle Investigator(s)				
Steven Henrichs 12. Performing Organization Name and Address 13. Sponsoring Agency Name and Address				
NDDOT M+R ⊠ No NDDOT OTHER* ☐ M NDSU ☐ 30	North Dakota DOT Materials and Research Division 300 Airport Road Bismarck ND 58504-6005		North Dakota DOT Materials and Research Division 300 Airport Road Bismarck ND 58504-6005	
14. Supplementary Notes				
Purpose and Need To produce an aesthetically pleasing surface finish on visible concrete, such as jersey barriers and bridge fascias, the NDDOT specifies Surface Finish "D" (specification 602.03 I.5). Before Surface Finish "D" may be applied the concrete must complete the curing period of seven days. NDDOT Specification 602.03 F does not allow the use of liquid forming curing compounds on concrete surfaces that will receive Surface Finish "D" must either have forms kept in placed or be wet cured until the completion of the curing period. Surface Finish "D" requires that after the completion of the curing period of the concrete, the surface of the concrete is sandblasted, to roughen the surface, and then a surface finish material is applied. The surface finish material consists of an application, or applications, of a cement-based, commercially-packaged masonry coating material. An alternative to a cement-based coating is Texcote XL-70C Bridge Cote. XL-70C is a polymer based organic resin system that contains a curing compound. Because it contains a curing compound, the manufacturer maintains that the product may be applied during the curing period. It does not require sandblasting of the concrete surface prior to application and requires only one coat. The manufacturer reports that another major benefit of this product is that it produces a uniform color coating that is less "splotchy" than is often seen with cement-based coatings. Objective The objective of this project is to determine if Texcote XL-70C Bridge Cote will produce an aesthetically pleasing and durable surface finish for concrete and the results of this evaluation may be used to determine if a change in the current specification for Surface Finish "D" should be considered. Summary There was some difficulty applying the XL-70C until the equipment was set-up correctly. When observed approximately 5 weeks after application the color appeared uneven. The uneven color was probably a result of the spray pattern used by the applicators. The contro				
16. Key Words	17. Distribution Statement			18. No. of Pages
Concrete Surface Finish Curing Compound	No restrictions. This North Dal Mate	document is available kota Department of erials and Research 300 Airport Roa Bismarck ND 58504	Transportation Division: d	18. No. of Pages 10 19. File type/Size 0.2 mb